APPENDIX B

Frequently Asked Questions: Section III, "Health Physics"

NOTES: All questions and answers in this appendix relate to the Fukushima Daiichi nuclear power station. Unless otherwise indicated, all dates in this appendix are for 2011.

Q.1. What were the on-site doses to workers?

A.1. The Tokyo Electric Power Company (TEPCO) has been monitoring emergency workers for external dose throughout the accident and its aftermath (Table 1). TEPCO has also performed wholebody counting on each worker to derive his/her internal dose. Over the period of time from March through July, approximately 14,841 TEPCO employees and contractors were monitored. Slight discrepancies in the reported number of workers monitored are due to a handful of individuals for which both external and internal dose results are not available.

The standard dose limit for Japanese workers is 50 mSv/year and 100 mSv over 5 years. Before the accident, the emergency dose limit was set at 100 mSv/year but was raised to 250 mSv/year to address the seriousness of the issue.

The maximum external dose recorded is 199 mSv, and the maximum internal dose that has been calculated is 590 mSv. The maximum total dose recorded to a worker was 670 mSv, and a total of six workers have received doses in excess of the emergency dose limits established. Although 408 workers have received doses above the normal annual limit of 50 mSv, the average dose for emergency workers is still relatively low and has decreased steadily during the months following the accident. For workers performing emergency work since March, the average total accumulated dose is 22.4 mSv. For the months April through July, the average dose is <4 mSv. The total collective dose for all emergency workers is estimated to be 115 person-Sv.

In addition to whole-body doses, two male employees received significant skin dose while laying electric cables, from standing in contaminated water that flooded their boots. The estimated skin dose was \sim 2 to 3 Sv.

As of the most recent monitoring period, no observable health effects have been found in any of the workers.

Dose Category	E (T., (1	
(mSV)	External	Internal	
>250	0	5	
200 to 250	0	1	
200 to 250	0	1	
150 to 200	9	1	
100 to 150	28	5	
50 to 100	165	78	
50 10 100	105	70	
20 to 50	515	259	
10 to 20	1,451	684	
<10	12 (72	10 550	
<10	12,073	12,352	•
Total	14,841	13,585	
* http://www.tep	co.co.jp/en/press/con	<u>rp-com/releas</u>	<u>e/11091515-e.htr</u>

Table 1TEPCO Monitoring Results as of September 15*

Q.1.a. To whom are dosimetry records reported?

A.1.a. Dose records are reported to the Nuclear and Industrial Safety Agency (NISA). NISA is responsible for safety regulation of nuclear energy under the Act on the Regulation of Nuclear Source Material, Nuclear Fuel Material and Reactors or the Electricity Business Act.

Q.2. What were the off-site doses to members of the public?

A.2. At this point in time, the Committee does not have enough evidence or data to give a complete answer to the question. Let us provide the current status as we know it.

The doses received off-site by members of the public have come from four different pathways:

- submersion dose from airborne radioactivity
- inhalation dose from airborne radioactivity
- consumption of contaminated water and foodstuffs
- direct exposure from contaminated surface deposition.

The first two of these items cannot be measured retrospectively but can only be predicted from dispersion modeling. A few crude dispersion models have been made public, but no validated models have been made available for review to date. Airborne radioactivity is transitory, and the dose from inhalation is many times greater than the submersion dose for all but the noble gases.

Food and water contamination has been documented through extensive measurements. Most contaminated foodstuffs have been restricted, but there is no solid public information regarding their actual level of consumption.

Conversely, the external exposure from groundshine can be predicted with relative accuracy from the distribution of ground contamination (detailed below). Using the relative mixture of cesium-134 (¹³⁴Cs) and cesium-137 (¹³⁷Cs), the Institut de Radioprotection et de Sûreté Nucléaire in France has calculated the external dose for the first year after the accident at 16.6 mSv per MBq/m² of total cesium. This dose conversion is based upon an assumption of 12 hours/day inside, where the average dose rate is reduced 70% by the structure.

The latest evaluations of environmental radiation monitoring results by Japan's Nuclear Safety Commission (NSC) can be found at <u>http://www.nsc.go.jp/NSCenglish/mnt/index.htm</u>. Most recently (September 12), they are as follows.

Ambient radiation dose around Fukushima Daiichi nuclear power plant (NPP)

Observation of ambient radiation dose rate at 20 km or farther from the Fukushima Daiichi NPP found relatively higher dose rates locally at several measuring points. However, they do not reach the level that might affect people's health.

A part of the area at 20 km or farther from the Fukushima Daiichi NPP, where the integrated dose is so high that annual cumulative dose after the onset of the accident would potentially exceed 20 mSv, was set to be a "Deliberate Evacuation Area."

High-ambient-dose spots not having regional extent as Deliberate Evacuation Areas (outside of Deliberate Evacuation Area and "Restricted Area"), where ambient radiation dose rate is continually so high that the annual cumulative dose after the onset of the accident would exceed 20 mSv, are set to be "Specific Spots Recommended for Evacuation."

The Committee will need to continue to watch the variation of dose rate carefully, considering other factors such as weather and wind direction.

Dust sampling in the air around Fukushima Daiichi NPP

With regard to the measuring result of the dust samples collected at 20 km or farther from the Fukushima Daiichi NPP between September 2 and 8, ¹³⁴Cs and ¹³⁷Cs were detected. They were lower than the concentration limit.¹ In addition, iodine-131 (¹³¹I), iodine-132, technetium-132, and other radioactive materials were lower than the detection limit.

The Committee will continue to watch for variations of dust sampling data carefully, considering other factors such as weather and wind direction.

Airborne monitoring

In terms of ambient radiation dose rate and deposition of cesium in Yamagata Prefecture, airborne monitoring, measured through August 9 to 15 and adjusted as of August 15, showed generally low levels in the whole area of Yamagata Prefecture.

¹Limits of the radioactivity in the air outside the peripheral monitoring area boundary as specified by the law are 5×10^{-6} Bq/cm³ (5 Bq/m³) for ¹³¹I, 2×10^{-5} Bq/cm³ (20 Bq/m³) for ¹³⁴Cs, and 3×10^{-5} Bq/cm³ (30 Bq/m³) for ¹³⁷Cs.

Environmental sampling around Fukushima Daiichi NPP

Monitoring results collected between September 5 and 10 were obtained on weeds, soil, and fallout. The soil still showed relatively higher values. Further information is needed on the continued measurement of the drinking water (tap water) and foods.

With regard to the measuring results of seawater collected around the Fukushima Daiichi NPP and at the coast of Ibaraki Prefecture between September 6 and 9, ¹³¹I, ¹³⁴Cs, and ¹³⁷Cs levels were lower than the detection limit. With regard to the measuring results of sea ground soil collected around the Fukushima Daiichi NPP on September 8 and 9, ¹³⁴Cs and ¹³⁷Cs were detected.

It is a matter of concern both domestically and internationally to grasp the concentration and distribution of radiological materials in the marine environment. As the NSC showed in the report entitled "The Basic Ideas for Future Radiation Monitoring" on July 21 (www.nsc.go.jp/NSCenglish/mnt/120105.pdf), it is necessary to adopt the detection limits established for investigating the radioactivity level in the environment.

Regarding the food distribution restrictions, be aware of the information announced by the Ministry of Health, Labor and Welfare regarding relevant intervention.

The Committee will continue to assess environmental monitoring by related organizations under the arrangement by the Ministry of Education, Culture, Sports, Science and Technology–Japan (MEXT), considering various elements such as weather change.

Environmental radioactivity level survey by prefecture

(1) Ambient radiation dose rate: Some prefectures showed higher values compared with the average values obtained before the accident; however, their values do not affect people's health.

(2) Drinking water (tap water): In Miyagi Prefecture, reading of drinking water (tap water) monitoring was 0.3 Bq/kg for radioactive cesium, as far as the data on radioactivity level in drinking water by prefecture published by MEXT were evaluated. It was lower than the indices to limit ingestion of food and drink.² See Table 3 in **A.11** for surveys of radioactive materials in drinking water in other prefectures.

The Committee considers that further monitoring is needed on a continuous basis.

A recent action by the Japanese Government on September 21, 2011, was to remove five localities from the evacuation zone (see Fig. 1) as reported in the *Yomiuri Shimbun* ("5 Localities to Drop from Evacuation Zone," *Daily Yomiuri Online: The Daily Yomiuri*, September 21, 2011; <u>http://www.yomiuri.co.jp/dy/national/T110920004946.htm</u>): "The government has notified five municipalities in Fukushima Prefecture that their designation as evacuation preparation zones will end later this month. The five municipalities are, from north to south, Minami-Soma, Tamura, Kawauchimura, Narahamachi and Hironomachi. They are located between 20 and 30 kilometers from the Fukushima No. 1 nuclear power plant. The government said earlier that it would end the designation across the board when rebuilding plans, including those for decontamination of radioactive substances, are worked out by the five municipalities."

²Indices to limit ingestion of drinking water are 300 Bq/kg for radioactive iodine and 200 Bq/kg for radioactive cesium, as shown in the "Regulatory Guide: Emergency Preparedness for Nuclear Facilities," Nuclear Safety Commission of Japan.



Figure 1. Evacuation areas and specific sites recommended for evacuation (current as of November 25). (Source: "Fukushima Daiichi Status Report," International Atomic Energy Agency, February 23, 2012.)

Table 2 shows the estimated external doses to those members of the public that were in Namie Town, Kawamata Town (in Yamakiya district), and Iitate Village. The table is based on preliminary results released February 20, 2012, by the Fukushima Prefecture project to estimate external dose to residents who were in the surrounding area for the first 4 months following the accident, i.e., from March 11 to July 11. Please note that these external dose estimates have been put together based on a survey of when and where people were during the months that followed the accident. When the full survey is released, it will likely include a substantial discussion of the estimation process.

Table 2Estimated External Doses to 9747 Members of the Public from Namie Town, KawamataTown, and Iitate Village from March 11 to July 11, 2011

Estimated	Number of
Dose	People ^a
(mSv)	_
0 to 1	5636
1 to 2	2081
2 to 3	825
3 to 4	387
4 to 5	290
5 to 6	203
6 to 7	130
7 to 8	62
8 to 9	46
9 to 10	16
10 to 11	26
11 to 12	14
12 to 13	8
13 to 14	6
14 to 15	7
>15	10
Total	9747

^aThe figures apply only to members of the public in the surrounding areas. They do not include radiation workers who lived in the area and worked on-site in this time period.

Q.3. What have been the ramifications of the evacuation zones chosen by Japan and the United States?

A.3. The Japanese followed their emergency plans and recommended evacuation of people in an area out to 10 km from Fukushima.

In the public transcripts of a U.S. Nuclear Regulatory Commission (NRC) meeting on July 19, 2011, a question from William D. Magwood, Commissioner of the NRC, followed by a response from Mr. Bill Borchardt, NRC Executive Director for Operations, is as follows:

COMMISSIONER MAGWOOD: Appreciate that. One more question, Mr. Chairman. Also to just give you a chance to clarify. I know there's a lot of chatter in the press over the weekend about the impact of 50-mile evacuation zones around U.S. nuclear plants. Could you sort of give the NRC's position on what the emergency planning requirements are, and why we're confident in what we have today? Can you please elaborate?

MR. BORCHARDT: We have, as part of the emergency preparedness construct in this country, a 10-mile emergency planning zone [EPZ] that completely encircles every reactor plant in the country. That, in coordination with FEMA [Federal Emergency Management Agency], who has an offsite emergency-preparedness role throughout the country, is routinely practiced. We have models that would do an analysis of what the release paths are; we take into account the meteorological conditions; and the NRC, I should be clear, the NRC does not make the recommendations regarding evacuation or any other protective action guidelines; that's the responsibility of the state government, so it would be the governor that would ultimately be making that decision. But we're in a position to provide independent assessment and advice to

the governor in those kinds of circumstances. The situation that led to the 50-mile guidance in Japan was based upon what we understood and still believe had existed, that there was degraded conditions in two spent fuel pools at the site, and in all likelihood some core damage in three of the reactor units. Based on the situation as we understood it at that time, we thought it was prudent to provide the recommendation to the ambassador to evacuate out to 50 miles in Japan. It was not based on the existing radiological conditions, but what at that time was a possibility. And so we thought it was the prudent, conservative suggestion. If those conditions existed in the United States, we would have made the exact same recommendation. But the idea that there might be some misunderstanding, that because we have a 10-mile EPZ, that would be the extent for what we would consider and what our emergency planning recommendations would be limited to, is not true at all. We would have done the exact same kind of analysis and gone through the same thought process to consider extending evacuation or whatever protective measures we thought were appropriate.

The ramifications of evacuation have been out of all proportion to the radiation risks, whether chosen by Japan or suggested by US. The effect has been inhumane and against the public interest.

Some information is given in Note A below. The stress caused by this socio-economic surgery—mental health, personal relationships, business confidence, care for the young and elderly, increased suicide rates—have [has] been neglected in the imposition of evacuation. At Chernobyl there was a similar over-reaction and the health effects were clearly reported in the IAEA [International Atomic Energy Agency] Report of 2006 and the UN Report of 28 Feb 2011. These make it clear that the negative health effects of fear and evacuation far outweigh any effect due to radiation. Inappropriate safety levels based on ALARA [as low as (is) reasonably achievable] are at the root of the problem.

Q.4. What was the calculational basis for the evacuation recommendations, and what were the uncertainties in the supporting calculations?

A.4. The Committee notes that in response to the Tohoku earthquake and the subsequent disaster at the Fukushima Daiichi nuclear power station (NPS), the Japanese government enforced a mandatory evacuation of individuals residing within a 20-km radius of the crippled nuclear power plant (NPP). Individuals residing within a 30-km radius and outside the 20-km zone were advised to either take shelter indoors or evacuate the area. These evacuation areas aimed to secure a certain distance from the NPS based on unstable conditions at the facility and to reduce the cumulative dose received by residents in the first year following the accident to a value of <20 mSv ("The Basic Approach to Reassessing Evacuation Areas," Nuclear Emergency Response Headquarters, August 9, 2011). The initial 20 km was designated a precaution area and was later designated as a Deliberate Evacuation Area following measurements taken near the site of the accident.

This evacuation was in stark contrast to the evacuation recommended by the U.S. Nuclear Regulatory Commission (NRC) of 50 miles to all U.S. citizens residing near the Fukushima Daiichi NPS. The decision to expand evacuation of U.S. citizens outside of 50 miles was a highly conservative decision largely based on computer models considering several factors including an abundance of caution resulting from limited and unverifiable information on the conditions of several units at the NPS, including the conditions of Units 1, 2, and 3, which had appeared to be damaged by hydrogen explosions, and the status of Unit 4, which was in a refueling outage and the entire core of which had been recently transferred to spent-fuel pools (SFPs) only 3 months earlier. Readings showed elevated dose levels in some areas of the NPP that could have hindered NPP crews from stabilizing the NPP's condition. There was a level of uncertainty about whether stabilization of the NPP could be done near term. In addition, changes in meteorological conditions resulted in the winds shifting from outward to sea to inward toward land. To perform off-site radiation dose modeling, the NRC used the computer code RASCAL. This code uses information on various U.S. nuclear reactor design types, radiation release paths from NPPs to the environment, radionuclide source terms, and meteorology ("Expanded NRC Questions and Answers Related to the March 11, 2011 Japanese Earthquake and Tsunami, April 13, 2011," NRC). Prior to the disaster, the computer program was unable to handle concurrent, multiple plant releases. Following the disaster, the NRC developed a model that combined information from the three operating reactors and the SFP in order to improve the accuracy of the program. The doses predicted by the RASCAL code were predicted to exceed the protective action guidelines established by the U.S. Environmental Protection Agency well beyond both the 20-km mandatory evacuation zone and beyond the 30-km sheltering zone recommended by the Japanese government. The basis for the dose assessment was limited and used unverifiable information provided by Japanese authorities on the condition of the crippled reactors. The dose assessment results are conservative predictions and may not actually reflect the dose levels from any actual radiation release (NRC 11-50, "NRC Provides Protective Action Recommendations Based on U.S. Guidelines," March 16, 2011, NRC). The model also uses predicted meteorological conditions that occurred for this area and may not be reliable.

Q.5. What are the long-term land contamination effects off-site?

A.5. The long-term land contamination off-site is due to the deposition of cesium-134 (¹³⁴Cs) and cesium-137 (¹³⁷Cs), because of their comparatively long half-lives (the half-lives of ¹³⁴Cs and ¹³⁷Cs are 2.1 and 30.1 years, respectively). The other radionuclides identified as being released have half-lives on the order of less than days or tens of days. The other isotopes of concern from a reactor accident include strontium-90, yttrium-90, and the actinides, but these have not been measured in detectable quantities beyond the established evacuation zone.

The initial measurement of ground contamination was performed by the Ministry of Education, Culture, Sports, Science and Technology–Japan [with assistance from the U.S. Department of Energy (DOE)] by measuring aboveground exposure levels using a helicopter flyover, extrapolating to the exposure rate at ground level, and converting that value to an area concentration of cesium, given the relative proportions of ¹³⁴Cs and ¹³⁷Cs expected. An example flyover map is shown in Fig. 2. From several of these maps, isodose/isoconcentration curves are generated, and a map over the entire survey area is produced, as in Fig. 3. This method has the potential to miss small hot and cold spots in the survey area but provides a reasonable distribution of the deposited activity.

A significant number of soil samples throughout the region have been collected and measured with gamma spectroscopy to obtain the cesium concentration. A map of those samples is shown in Fig. 4. A direct correlation between the various maps has not been completed, but the patterns observed are similar.

The Institut de Radioprotection et de Sûreté Nucléaire (IRSN) map (Fig. 2) indicates that there is a total land area of \sim 874 km² contaminated with ¹³⁴Cs and ¹³⁷Cs in concentration >600 kBq/m², which is the concentration that is predicted to correspond to 10 mSv of dose in the first year (this includes outside the 20-km evacuation zone).



Figure 2. Monitoring results. (Courtesy of DOE National Nuclear Security Agency.)



Figure 3. Cumulative deposition of cesium radioisotopes. (Courtesy of IRSN.)



Figure 4. Cumulative deposition of ¹³⁷Cs radioisotope. (Courtesy of NNSA.)

Q.6. What is the Japanese practice in dose monitoring for workers and also the public? Where are the records kept? To whom are the records reported?

A.6. As of this writing, the Committee does not have information regarding these questions.

Q.7. When will the Japanese government announce a large-scale post-Fukushima-accident health monitoring program for those who have been exposed? Or, will it not have such a program?

A.7. As of July 5, more than 210,000 residents have been screened by experts from related organizations, universities, and local governments ["Progress Status of the Roadmap for Immediate

Actions for the Assistance of Residents Affected by the Nuclear Incident," Nuclear Emergency Response Headquarters, Ministry of Economy, Trade and Industry;

http://www.meti.go.jp/english/earthquake/nuclear/roadmap/ (accessed September 20, 2011]. Two internal dose assessment surveys were started by the National Institute of Radiological Sciences (NIRS) and the Japan Atomic Energy Agency (JAEA). NIRS has completed an internal exposure survey on Fukushima Prefectural residents ["Regarding the Overview of Internal Exposures Survey on Fukushima Prefectural Residents Conducted by the National Institute of Radiological Sciences, July 28, 2011," Nuclear and Industrial Safety Agency; http://www.nisa.meti.go.jp/english/press/index.html (accessed September 20, 2011)]. Initial measurements were taken between June 27 and July 16. The survey focused on residents who lived in areas associated with high doses. A total of 122 participants— 90 residents from Namie Town, 20 residents from Iitate Village, and 12 residents from Kawamata Town—were initially enrolled in the survey, and 109 subjects were surveyed in follow-up examinations. Whole-body counters were used to detect activity from cesium-134 (¹³⁴Cs), cesium-137 (¹³⁷Cs), and iodine-131. Urine bioassays were used to determine a cutoff value for the whole-body-counter measurements. Cesium-134 was detected in 52 out of 109 people (47.7%) with the highest value being 3,100 Bq. Cesium-137 was detected in 32 out of 109 people (29.4%), with the highest value being 3,800 Bq. Both ¹³⁴Cs and ¹³⁷Cs were detected in 26 out of 109 people (23.9%). Iodine-131 was not detected in any subject. Based on this survey, the combined internal dose from ¹³⁴Cs and ¹³⁷Cs was <1 mSv (100 mrem) for these individuals. JAEA began internal exposure surveying of 2,800 evacuees on July 11.

Appropriations were made for the "Health Fund for Children and Adults Affected by the Nuclear Accident," created by Fukushima Prefecture to ensure the health of residents through mid-term and long-term projects (www.meti.go.jp/english/nuclear/roadmap/110817_assistance_02). Currently, a two-step plan is being considered (Y. Oiwa, Y. Kado, and Y. Hayashi, "Fukushima Prepares Extensive Study of Radiation Health Effects on Residents," *Asahi Shimbun Digital*, June 18, 2011; http://www.asahi.com/english/TKY201106170203.html). First, a preliminary study began in early July on a sample of about 100 residents that were located in regions of high radiation levels. Those selected will undergo thorough testing for internal radiation contamination. All Fukushima residents will be considered in the primary study. Questionnaires will be distributed to all residents in order to help experts determine the radiation dose received by the residents. The data will be stored for 30 years to conduct follow-up health checks. An estimated 2 million residents need to be monitored.

The United Nations Scientific Committee on the Effects of Atomic Radiation (UNSCEAR) has also announced that it will conduct a study on the health impact to Fukushima residents ["The Nuclear Situation due to the Earthquake and Tsunami in Japan," UNSCEAR; <u>http://www.unscear.org/unscear/en/japan.html</u> (accessed September 20, 2011)].

Q.8. Are there any data regarding the radionuclide content of foodstuffs and water, ground deposition of fallout from the initial and ongoing releases, or airborne radioactive material concentration measurements?

A.8. There are many, and source material has been circulated. The radionuclide levels are extremely low. The Regulation Value level for beef has been set at 500 Bq/kg. Actions taken by the Japanese government to restrict consumption of contaminated meats are outlined in "Measures Against Beef Which Exceeds the Provisional Regulation Values of Radioactive Cesium by the Government to Ensure Safety of Beef," Government of Japan; http://www.kantei.go.jp/foreign/kan/topics/201107/measures_beef.pdf.

Q.9. Can the early radioactivity releases be estimated from the remaining fission, activation, and fuel radionuclides on archived air samples?

A.9. The Committee does not have any information regarding this question at this time.

Q.10. Are there any assessments in place of personnel protective measures such as respiratory protection, food washing, and sheltering?

A.10. The Tokyo Electric Power Company (TEPCO) has improved the working conditions and safety measures for its workers since the beginning of the accident. All TEPCO workers are required to wear Tyvek® and other protective clothing, gloves, and protection masks. In addition, TEPCO has established contamination-free rest areas throughout the nuclear power plant; installed water coolers; and introduced a "cool vest," which aims to protect workers from heat exhaustion. Currently, seven designated rest areas have been created, and four additional rest areas are in preparation. Also, improvements in living conditions have been made at the gymnasium, which houses several workers.

Q.11. Are there any measurements of contamination of drinking water sources? Was most drinking water prebottled water or tap water?

A.11. The Committee has no data regarding the partition between public water supplies and bottled water that were used after the accident. However, there are data for some public water supplies. These data—taken directly from the Ministry of Education, Culture, Sports, Science and Technology–Japan (MEXT): "Monitoring Information of Environmental Radioactivity Level," MEXT; http://radioactivity.mext.go.jp/en/)—are summarized in the tables and figures below.





Results of surveys on radioactive materials in tap water conducted by Ministry of Education, Culture, Sport, Science and Technology



XIn these figures, the concentration is shown as zero for descriptive purposes of drawing figures, in case of ND (Not Detectable). (The lower detection limit varies for each measurement, and ND does not mean that the detected concentration level is zero.)

%Out of prefectual governments conducting surveys, only prefectures, in which radioactive iodine and radioactive cesium were detected, are shown.

Radioactive i	odine 13	31			•								
Sampling Date	Iwate	Akita	Yamagata	Ibaraki	Tochigi	Gunma	Saitama	Chiba	Tokyo	Kanagawa	Niigata	Yamanashi	Shizuoka
3/18	ND	ND	ND	-	77	2.5	0.62	0.79	1.5	ND	0.27	ND	
3/19	ND	ND	ND	-	16	3.4	0.93	1.2	2.9	0.43	2.1	ND	ND
3/20	ND	ND	ND	12	10	5.9	2	0.68	2.9	0.46	3.6	0.24	ND
3/21	ND	ND	ND	58	13	4.7	3.4	0.59	5.3	0.58	3.2	ND	ND
3/22	3.4	0.76	3.9	12	15	9.3	9.2	0.48	19	0.93	3	ND	0.14
3/23	5.3	2	ND	24	56	7	12	7.8	26	0.75	7.8	ND	ND
3/24	1.5	1.2	1.5	2.2	110	8	18	13	26	1	7.5	0.22	ND
3/25	0.54	0.83	1.9	78	36	6.4	24	13	32	4.9	7.1	ND	ND
3/26	ND	0.42	ND	42	18	6.3	37	9	37	7.4	5.7	ND	ND
3/27	0.34	0.5	ND	37	12	5.4	36	6.4	20	9.2	4.6	ND	ND
3/28	ND	0.77	1.4	22	10	5.4	33	3.8	9.8	9.6	4.5	ND	ND
3/29	ND	0.57	-	11	9.9	4.6	5.3	3	5.6	9.9	3.4	ND	ND
3/30	0.36	0.35	-	17	8.1	4.7	4.3	2	5.1	8.6	2.3	ND	ND
3/31	0.31	0.42	-	9.5	9	2.6	3.7	1.5	3.4	6.3	1.8	ND	ND
4/1	0.33	0.2	-	7.7	9.8	3.4	3.9	1.3	2.1	4.5	1.5	0.11	ND
4/2	ND	ND	-	4.6	12	2.2	4.9	0.97	2	3.3	1.4	ND	ND
4/3	ND	ND	-	5.1	7.8	3	4.8	0.74	2.9	2.7	1.1	ND	ND
4/4	0.23	ND	-	11	7.1	1.8	3	0.42	3.8	2.3	1	ND	ND
4/5	ND	ND	ND	7.3	5.7	1.2	2.2	0.41	2.6	1.9	0.77	ND	ND
4/6	ND	ND	ND	1.9	5.8	1.6	1.3	0.35	1.63	1.2	0.58	ND	ND
4/7	0.15	ND	ND	1.9	5.2	0.91	1	0.29	1.4	1.1	0.53	ND	ND
4/8	ND	ND	ND	1.2	4.8	1	0.7	ND	0.89	0.79	0.53	ND	ND
4/9	ND	ND	ND	1.3	4	0.96	0.79	ND	1	0.54	0.32	ND	ND
4/10	ND	ND	ND	2.1	2.6	0.93	0.72	ND	0.71	0.65	0.33	ND	ND
4/11	ND	ND	ND	0.91	3.7	0.7	0.41	ND	0.6	ND	0.31	ND	ND

Table 2. Results of surveys on radioactive materials in tap water conducted by Ministry of Education	, Culture,
Sport, Science and Technology [*]	

Sampling Date	Iwate	Akita	Yamagata	Ibaraki	Tochigi	Gunma	Saitama	Chiba	Tokyo	Kanagawa	Niigata	Yamanashi	Shizuoka
3/18	ND	ND	ND	-	1.6	0.22	ND	ND	ND	ND	ND	ND	ND
3/19	ND	ND	ND	I	2.6	ND	ND	ND	0.21	ND	ND	ND	ND
3/20	ND	ND	ND	0.48	2.8	1.2	ND	ND	ND	ND	ND	ND	ND
3/21	ND	ND	ND	18	6	0.72	ND	ND	0.22	ND	ND	ND	ND
3/22	ND	ND	ND	4.8	5.3	0.37	ND	ND	0.31	ND	ND	ND	ND
3/23	0.13	ND	ND	3.3	9.3	0.54	0.32	ND	1.5	ND	ND	ND	ND
3/24	ND	ND	0.43	1.1	9.3	0.55	0.82	ND	2.4	ND	ND	ND	ND
3/25	ND	ND	ND	ND	7.6	0.56	1	0.27	2.1	ND	ND	ND	ND
3/26	ND	ND	ND	ND	6	0.47	0.79	0.32	1.8	ND	ND	ND	ND
3/27	ND	ND	ND	0.91	5.2	0.44	1	0.25	1.2	ND	ND	ND	ND
3/28	ND	ND	ND	ND	4.9	0.5	0.79	0.32	0.82	ND	ND	ND	ND
3/29	ND	ND	-	2.5	5.4	0.57	0.35	0.26	0.51	ND	ND	ND	ND
3/30	ND	ND	-	ND	3.4	0.72	0.46	0.45	0.9	ND	ND	ND	ND
3/31	ND	ND	-	ND	3.9	0.46	0.76	0.64	0.88	ND	ND	ND	ND
4/1	ND	ND	-	ND	4.3	0.67	0.41	0.43	0.45	ND	ND	ND	ND
4/2	ND	ND	-	ND	6.7	0.31	0.49	0.53	0.45	ND	ND	ND	ND
4/3	ND	ND	-	ND	5.8	0.24	1.1	0.49	0.5	ND	ND	ND	ND
4/4	ND	ND	-	ND	4.8	0.19	0.68	0.5	0.59	ND	ND	ND	ND
4/5	ND	ND	ND	ND	4.5	ND	0.68	0.43	0.64	ND	ND	ND	ND
4/6	ND	ND	ND	ND	4.0	1.04	0.42	0.26	0.5	ND	ND	ND	ND
4/7	ND	ND	ND	0.76	4	ND	0.48	0.53	0.6	ND	ND	ND	ND
4/8	ND	ND	ND	ND	4	ND	0.51	ND	0.48	ND	ND	ND	ND
4/9	ND	ND	ND	ND	3.7	ND	0.49	0.18	0.26	ND	ND	ND	ND
4/10	ND	ND	ND	ND	1.3	0.13	0.33	0.24	ND	ND	ND	ND	ND
4/11	ND	ND	ND	ND	ND	0.35	0.2	ND	0.27	ND	ND	ND	ND

ND: Less than the lower limit of detection.

-: Measurements were not conducted due to the maintenance of measuring instrument. XOut of prefectual governments conducting surveys, only prefectures, in which radioactive iodine and radioactive cesium were detected, are shown.



Figure 2. Results of surveys on radioactive materials in tap water conducted by water supply utilities that imposed restrictrion on intake of tap water









XIn these figures, the concentration is show as zero for descriptive purposes of drawing figures, in case of ND (Not Detectable). (The lower detection limit varies for each measurement, and ND does not mean that the detected concentration level is zero.)

	1litate-r	nura (villa	ge)	②Date-shi (city)			③Kawamata-machi (town)			④Koriyama-shi (city)		
Date	¹³¹ I	¹³⁴ Cs	¹³⁷ Cs	¹³¹ I	¹³⁴ Cs	¹³⁷ Cs	¹³¹ I	¹³⁴ Cs	¹³⁷ Cs	¹³¹ I	¹³⁴ Cs	¹³⁷ Cs
	Bq/kg	Bq/kg	Bq/kg	Bq/kg	Bq/kg	Bq/kg	Bq/kg	Bq/kg	Bq/kg	Bq/kg	Bq/kg	Bq/kg
2011/3/17							308	ND	ND	17	ND	ND
2011/3/18							293	15	ND	ND	ND	ND
2011/3/19							130	ND	ND	ND	ND	ND
2011/3/20	965	ND	ND				127	ND	ND			
2011/3/21	492	16	15	120	8	ND	174	ND	6	150	ND	ND
2011/3/22	344	ND	ND				69	ND	ND	75	ND	ND
2011/3/23	220	ND	ND	56	ND	ND	77	ND	ND	59	ND	ND
2011/3/24	94	ND	ND	53	ND	ND	50	ND	ND	42	ND	4
2011/3/25	113	ND	ND	108	ND	ND	40	ND	ND	42	ND	ND
2011/3/26	179	ND	ND	29	ND	ND	37	ND	14	52	ND	ND
2011/3/27	159	ND	ND	42	ND	ND	67	ND	ND	55	ND	ND
2011/3/28	129	ND	8	45	ND	ND	34	ND	ND	32	ND	4
2011/3/29	77	ND	ND	38	17	15	16	ND	ND	28	ND	ND
2011/3/30	71	ND	ND	18	ND	ND	17	ND	ND	28	ND	ND
2011/3/31	81	ND	12	83	69	53	35	ND	ND	22	ND	ND
2011/4/1	72	ND	ND	15	ND	ND	16	ND	ND	17	ND	ND
2011/4/2	55	13	8	15	ND	ND	23	ND	ND	11	ND	ND
2011/4/3	43	12	5	ND	ND	ND	ND	ND	ND	11	ND	ND
2011/4/4	37	ND	ND	ND	ND	ND	14	ND	13			
2011/4/5	38	9	ND	ND	ND	ND	ND	ND	ND			
2011/4/6	27	ND	ND	ND	ND	ND	11	ND	ND	9	ND	ND
2011/4/7	24	ND	11	ND	ND	ND	ND	ND	ND	7	ND	ND
2011/4/8	25	ND	ND	10	ND	ND	ND	ND	ND	7	ND	ND
2011/4/9	20	7	7	24	31	38	ND	ND	ND	6	ND	ND
2011/4/10	28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2011/4/11	23	ND	ND	ND	ND	ND	ND	ND	ND	6	ND	ND
2011/4/12	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Remarks	From a num points, the l	ber of measu argest value	irement is shown.	From a num points, the la	ber of measu argest value	irement is shown.	From a num points, the la	ber of measu argest value	irement is shown.	From a num points, the la	ber of measu argest value	rement is shown.

Table 3. Results of surveys on radioactive materials in tap water conducted by water supply utilities that imposed restriction on intake of tap water

	5 Minami	soma−shi	(city)	6 Tamura	a-shi (city)	7Iwaki-s	shi (city)		8 Utsund	omiya−shi	(city)
Date	¹³¹ I	¹³⁴ Cs	¹³⁷ Cs	¹³¹ I	¹³⁴ Cs	¹³⁷ Cs	¹³¹ I	¹³⁴ Cs	¹³⁷ Cs	¹³¹ I	¹³⁴ Cs	¹³⁷ Cs
	Bq/kg	Bq/kg	Bq/kg									
2011/3/17				348	ND	ND	43	ND	ND			
2011/3/18	105	ND	ND	317	27	30	93	ND	16	77		2
2011/3/19	185	ND	ND	161	ND	ND	99	ND	16	16		3
2011/3/20	109	12	ND	72	ND	ND	49	ND	ND	10		3
2011/3/21	220	ND	ND	52	6	ND	103	ND	5	13		6
2011/3/22	81	ND	ND	60	ND	ND	114	ND	ND	62		5
2011/3/23	43	ND	ND	49	ND	ND	116	ND	ND	56		9
2011/3/24	71	41	43	107	ND	ND	215	ND	ND	110		9
2011/3/25	46	ND	ND	81	ND	ND	100	ND	ND	36		8
2011/3/26	58	ND	ND	60	ND	ND	86	ND	ND	18		6
2011/3/27	57	ND	ND	56	ND	ND	68	ND	ND	12		5
2011/3/28	52	ND	ND	39	ND	ND	42	ND	ND	10		5
2011/3/29	37	ND	ND	52	ND	ND	28	ND	ND	10		5
2011/3/30	35	ND	ND	15	ND	ND	17	ND	ND	8	ND	5
2011/3/31	21	ND	ND	61	60	81	36	ND	ND	9		4
2011/4/1	22	ND	ND	15	ND	ND	20	ND	ND	10		4
2011/4/2	19	ND	ND	16	ND	ND	12	ND	ND	12		7
2011/4/3	16	ND	ND	4	ND	ND	14	ND	ND	8		6
2011/4/4	ND	ND	ND	ND	ND	ND	ND	ND	ND	7		5
2011/4/5	ND	ND	ND	30	22	31	ND	ND	ND	6		5
2011/4/6	ND	ND	ND	ND	ND	ND	ND	ND	ND	6		4
2011/4/7	ND	ND	ND	ND	ND	ND	ND	ND	ND	5		4
2011/4/8	ND	ND	ND	ND	ND	ND	ND	ND	ND	5		4
2011/4/9	ND	ND	ND	ND	ND	ND	ND	ND	ND	4		4
2011/4/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	3		1
2011/4/11	ND	ND	ND	ND	ND	ND	ND	ND	ND	4		ND
2011/4/12							ND	ND	ND	3		ND
Pomarko	From a num	ber of measu	rement	From a num	ber of measu	rement	From a num	ber of measu	rement	From a num	ber of meas	urement
Remarks points, the largest value is shown. po				points, the l	argest value	is shown.	points, the l	argest value	is shown.	points, the l	argest value	is shown.

	(9)Nogi-m	<u>iachi (towi</u>	n)	10Tokai-	<u>mura (villa</u>	ge)	①Hitachi	<u>ota-shi (c</u>	ity)	(12)Kita-ib	<u>araki-shi (</u>	city)
Date	¹³¹ I	¹³⁴ Cs	¹³⁷ Cs	¹³¹ I	¹³⁴ Cs	¹³⁷ Cs	¹³¹ I	¹³⁴ Cs	¹³⁷ Cs	¹³¹ I	¹³⁴ Cs	¹³⁷ Cs
	Bq/kg	Bq/kg	Bq/kg	Bq/kg	Bq/kg	Bq/kg	Bq/kg	Bq/kg	Bq/kg	Bq/kg	Bq/kg	Bq/kg
2011/3/17												
2011/3/18												
2011/3/19												
2011/3/20												
2011/3/21												
2011/3/22							245		7			
2011/3/23	142	ND	ND	189		1	150		ND	116		7
2011/3/24	78	ND	ND	124		2	92		12	78		2
2011/3/25	69	ND	ND	97		ND	ND		ND	46		ND
2011/3/26	34	ND	ND	89		0	22		3	39		ND
2011/3/27	ND	ND	ND	21		ND	ND		ND	26		1
2011/3/28	ND	ND	ND	19		ND	23		ND	19		ND
2011/3/29	ND	ND	ND	7		ND				15		ND
2011/3/30	ND	ND	ND									
2011/3/31	ND	ND	ND				ND		ND			
2011/4/1	ND	ND	ND	10	ND	ND				6	ND	1
2011/4/2	ND	ND	ND	8	1	ND				6	ND	ND
2011/4/3	ND	ND	ND	5	ND	ND				4	ND	ND
2011/4/4	ND	ND	ND	5	ND	ND				3	ND	ND
2011/4/5	ND	ND	ND	6	ND	ND				3	ND	ND
2011/4/6	ND	ND	ND				ND		ND			
2011/4/7	ND	ND	ND	5	ND	ND				1	ND	ND
2011/4/8	ND	ND	ND									
2011/4/9	ND	ND	ND	3	ND	1	ND		ND	2	ND	ND
2011/4/10	ND	ND	ND									
2011/4/11	ND	ND	ND	4	ND	ND				1	ND	ND
2011/4/12	ND	ND	ND				2		ND			
Remarks				From a num points, the l	ber of measu argest value	rement is shown.	From a number of measurement points, the largest value is shown.			From a number of measurement points, the largest value is shown.		

	13Hitachi	-shi (city)		(14)Kasama	a-shi (city)	(15Koga-s	hi (city)		16Toride	-shi (city)	
Date	¹³¹ I	¹³⁴ Cs	¹³⁷ Cs	¹³¹ I	¹³⁴ Cs	¹³⁷ Cs	¹³¹ I	¹³⁴ Cs	¹³⁷ Cs	¹³¹ I	¹³⁴ Cs	¹³⁷ Cs
	Bq/kg	Bq/kg	Bq/kg									
2011/3/17												
2011/3/18												
2011/3/19												
2011/3/20												
2011/3/21												
2011/3/22												
2011/3/23	298		4	170		ND	142	ND	ND			
2011/3/24	230		3	132		ND	78	ND	ND	107		6
2011/3/25	85		2	33		ND	69	ND	ND	84		4
2011/3/26	41		4	20		ND	34	ND	ND	71		5
2011/3/27	19		2				ND	ND	ND	36		ND
2011/3/28	48		3				ND	ND	ND	20		3
2011/3/29	19		3				ND	ND	ND	14		2
2011/3/30							ND	ND	ND			
2011/3/31							ND	ND	ND			
2011/4/1	10	ND	ND				ND	ND	ND	7	1	1
2011/4/2	9	ND	1				ND	ND	ND	7	1	1
2011/4/3	6	1	1				ND	ND	ND	8	1	ND
2011/4/4	4	ND	ND				ND	ND	ND	7	ND	ND
2011/4/5				4	ND	ND	ND	ND	ND	6	ND	ND
2011/4/6	4	ND	ND				ND	ND	ND	3	ND	ND
2011/4/7				3	1	ND	ND	ND	ND	2	1	1
2011/4/8	4	1	ND				ND	ND	ND	2	ND	ND
2011/4/9				3	ND	ND	ND	ND	ND	2	ND	1
2011/4/10	7	ND	ND				ND	ND	ND	2	ND	ND
2011/4/11				5	ND	ND	ND	ND	ND	2	ND	1
2011/4/12	6	ND	ND				ND	ND	ND			
Develo	From a num	ber of measu	rement	From a num	ber of measu	rement				From a num	ber of measu	rement
Remarks	points, the l	argest value	is shown.	points, the l	argest value	is shown.				points, the I	argest value	is shown.

	①Chiba (Chiba Treatment Plar Treatment Plar	OChiba (Chiba Nogiku-no-sato Water Treatment Plant and Kuriyama Water Treatment Plant) 134 137 137 137 137 137 137 137 137 137 137			(ashiwai Wat Plant)	ter	(19)Kitachib Supply Util	a-Koiki Bull ity	Water	Inba-gun Bulk Water Supply Utility		
Date	¹³¹ I	¹³⁴ Cs	¹³⁷ Cs	¹³¹ I	¹³⁴ Cs	¹³⁷ Cs	¹³¹ I	¹³⁴ Cs	¹³⁷ Cs	¹³¹ I	¹³⁴ Cs	¹³⁷ Cs
	Bq/kg	Bq/kg	Bq/kg	Bq/kg	Bq/kg	Bq/kg	Bq/kg	Bq/kg	Bq/kg	Bq/kg	Bq/kg	Bq/kg
2011/3/17												
2011/3/18												
2011/3/19												
2011/3/20												
2011/3/21	33	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2011/3/22							336	8	7			
2011/3/23	220						110	ND	ND			
2011/3/24	90			97						97		
2011/3/25	55	ND	ND	130	ND	ND	33	ND	ND	130	ND	ND
2011/3/26	45	ND	ND	63	ND	ND	14	ND	ND	63	ND	ND
2011/3/27	22	2	2	1	1	1				1	1	1
2011/3/28	12	ND	ND	29	ND	ND	ND	ND	ND	29	ND	ND
2011/3/29	11	ND	ND	37	ND	ND	ND	ND	ND	37	ND	ND
2011/3/30	8	ND	ND	21	ND	ND	ND	ND	ND	21	ND	ND
2011/3/31	6	ND	ND	24	ND	ND	ND	ND	ND	24	ND	ND
2011/4/1	6	ND	ND	20	ND	ND	ND	ND	ND	20	ND	ND
2011/4/2	10	ND	ND	28	ND	ND	ND	ND	ND	28	ND	ND
2011/4/3	ND	ND	ND	40	ND	ND	ND	ND	ND	40	ND	ND
2011/4/4	6	ND	ND	27	ND	ND	ND	ND	ND	27	ND	ND
2011/4/5	ND	ND	ND	21	ND	ND	ND	ND	ND	21	ND	ND
2011/4/6	ND	ND	ND	13	ND	ND	6	ND	ND	13	ND	ND
2011/4/7	ND	ND	ND	9	ND	ND	ND	ND	ND	9	ND	ND
2011/4/8	ND	ND	ND	10	ND	ND	ND	ND	ND	10	ND	ND
2011/4/9	ND	ND	ND	9	ND	ND	ND	ND	ND	9	ND	ND
2011/4/10	ND	ND	ND	10	ND	ND	ND	ND	ND	10	ND	ND
2011/4/11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2011/4/12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Remarks	Between the Chi Treatment Plant Treatment Plant	ba Nogikunosato or the Kuriyama the higher value	Water Water is shown.	The value of the (East-side facilit	Kashiwai Water T y) is shown.	reatment Plant				The value of the (East-side facility	Kashiwai Water T y) is shown.	reatment Plant

	DTokyo (Kanamachi Treatment Plant)										
Date	¹³¹ I	¹³⁴ Cs	¹³⁷ Cs								
	Bq/kg	Bq/kg	Bq/kg								
2011/3/17											
2011/3/18											
2011/3/19											
2011/3/20											
2011/3/21											
2011/3/22	210	ND	ND								
2011/3/23	190	ND	ND								
2011/3/24	79	ND	ND								
2011/3/25	51	ND	ND								
2011/3/26	34	ND	ND								
2011/3/27	ND	ND	ND								
2011/3/28	ND	ND	ND								
2011/3/29	ND	ND	ND								
2011/3/30	ND	ND	ND								
2011/3/31	ND	ND	ND								
2011/4/1	ND	ND	ND								
2011/4/2	ND	ND	ND								
2011/4/3	ND	ND	ND								
2011/4/4	ND	ND	ND								
2011/4/5	ND	ND	ND								
2011/4/6	ND	ND	ND								
2011/4/7	ND	ND	ND								
2011/4/8	ND	ND	ND								
2011/4/9	ND	ND	ND								
2011/4/10	ND	ND	ND								
2011/4/11	ND	ND	ND								
2011/4/12	ND	ND	ND								
Remarks	The value of	The value of the Kanamachi Water									
Normanna	Treatment F	'lant is show	n.								

%As for values of radioactive iodine, the cells with values exceeding 100 Bq/kg are colored and those exceeding 300 Bq/kg are in bold.
%The blank space means that no mesurement was carried out. ND: Less than the lower limit of detection. (The lower detection limit varies for each measurement.)
%The values are rounded off to the closest whole number.

Q.12. Have local foodstuffs (fish and meat) been sampled for radioactive materials content?

A.12. The Committee has collected and compiled data for contamination of foodstuffs reported to contain cesium-134, cesium-137, and iodine-131. These data are provided in Table 1, Appendix A, "Japanese Environmental Data near Fukushima." Because the food table has 12,000 lines of data, a summary is provided below. The complete documentation and recent updates for water and food supply information, as well as a number of other useful links, can be found at http://www.mhlw.go.jp/english/topics/2011eq/.

Food origin (Prefecture)	Food group	Number of food samples tested	Number of foods positive at levels exceeding provisional regulation limits (action levels)	Food concerned (numbers)
	vegetable	4194	250	bamboo shoot (55), spinach (39), shiitake (outdoor)(38), broccoli (21), ume(11), rapeseed (6), komatuna (6), sea oak (6), apricot milkcap (7), kukitachina (5), cabbage (5), shinobuhuyuna (5), kosaitai (4), yuzu (4), mizuna (3), ostrich fern(3), turnip (3), shiitake (hothouse cultivation) (3), hatsutake (8), hana wasabi (2), bitaminna (2), santona (2), Japanese parsley(2), <u>chijirena (1)</u> , wakame seaweed (1), hijiki (1), loquat (1), fig (1), log-grown pholiota nameko (outdoor) (1), <u>chestnut (2)</u> , jersey cow mushroom(1), matsutake mushroom(1)
Fukushima	fishery products	1108	103	<u>avu(21)</u> , greenling (9), common skete (12), <u>cherry salmon (8)</u> , <u>juvenile sand lance</u> (<u>6</u>), northern sea urchin (5), brown hakeling (5), white bite(4), hen-clam(4), rock fish(4), japanese dace (3), japanese smelt(3), stone flounder (3), lefteye flounder (3), goldeye rockfish (3), righteye flounder (2), blue mussel (1), sea urchin (1), char (1), japanese mitten crab (1), slime flounder (1), willow gudgeon (1), japanese seabass (1), jacopever (1)
	milk · dairyproducts	412	18	raw milk (18)
	meat egg	1250	56	beef (56)
	grain	342	1	wheat (1)
	others	29	2	raw tea leaf (1), rapeseed (1)
	subtotal	7335	430	
	vegetable	633	39	spinach (29), parsley (7), mizuna (1), red leaf lettuce (1), apricot milkcap (1)
	fishery products	377	6	juvenile sand lance (5), brown hakeling (1)
Iboroki	milk · dairyproducts	83	5	raw milk (5)
IDdidN	meat egg	1604	4	boar meat (4)
	grain	452	-	
	others	68	13	raw tea leaf (13)
	subtotal	3217	67	
	vegetable	320	11	spinach (9), garland chrysanthemum (2)
	fishery products	26	-	
	milk · dairyproducts	45	-	
Tochigi	meat egg	101	10	beef (10)
	grain	273	-	
	others	21	4	raw tea leaf (2), unrefined tea leaf (2)
	subtotal	786	25	
	vegetable	569	3	spinach (2), kakina (1)
	fishery products	20	4	japanese smelt (2), japanese dace (1), char (1)
	milk dairyproducts	89	-	
Gunma	meat egg	733	-	
	grain	53	-	
	others	10	3	raw tea leaf (1), unrefined tea leaf (2)
	subtotal	1474	10	

Sum up of radionuclide test results carried	out since 19 March 2011
(Up-to-date Report as of 19:00, 21	September 2011)

	vegetable	287	-	
Saitama	fishen/ products	207	-	
	mille dein meducto	2	_	
	milk dairyproducts	50	=	
Saitama	meat-egg	78	-	
	grain	90	-	
	others	85	6	refined tea leaf (6)
	subtotal	592	6	
	Juptotal	002	· ·	and a distance the same (4)
	vegetable	517	11	garland chrysanthemum (4)
				qing-geng-cai (1), celery (1), sanchu asian lettuce (1), parsley (2), spinach (2)
	fishery products	243	-	
Ohiha	milk · dairyproducts	49	-	
Chiba	meat.edd	37	-	
	arain	010	_	
	grain	313	_	
	otners	37	15	raw tea leat (6), unrefined tea leat (7), refined tea leat (2)
	subtotal	1196	26	
	vegetable	153	1	komatuna (1)
	fisherv products	12	-	
	milk · dain/products	6	-	
Tokyo	arein			
	grain		-	
	others	26	3	refined tea leaf (2), raw tea leaf (1)
	subtotal	198	4	
	vegetable	158	-	
	fishery products	80	-	
	milk, dain products	60		
14	milk uairyproducts	03	-	
Kanagawa	meat-egg	36	-	
	grain	4	-	
	others	46	16	unrefined tea leaf (10) raw tea leaf (6)
	cubtotol	207	10	
	Subiolai	307	10	
	vegetable	728	-	
	fishery products	28	-	
	milk · dairyproducts	50	-	
Niigata	meat.edd	102	-	
- ingene	arain	2	_	
	grain	2		
	Outers	12	-	
	sudiotal	922	0	
	vegetable	221	-	
	fishery products	5	-	
	milk · dairyproducts	13	-	
Nagano	meatrem	27	_	
Nagano	mear egg	27		
	grain	03	-	
	otners	4	-	
	subtotal	323	0	
	vegetable	10		
	vegetable	10	-	
	tisnery products	12	-	
Aomori	milk · dairyproducts	11	-	
Aution	meat egg	10	-	
	grain	26	-	
	subtotal	77	0	
	vogotablo	00	•	
	feberurreduct	03	-	
	fishery products	36	-	
Iwato	milk · dairyproducts	37	-	
Iwate	meat-egg	182	17	beef (17)
	orain	62	-	
	eubtotal	400	17	
	Subiotal	400		
	vegetable	194	-	
	tishery products	106	-	
	milk · dairyproducts	72	-	
Miyagi	meat equ	1586	48	beef (48)
1-0-	grain	226	-	
	gran	330		
	others	6	-	
	subtotal	2300	48	
	vegetable	10	-	
	fishery products	4	-	
	milk dairyproducts	2	-	
Akita	most car	4	-	heaf (0)
	meatregg	29	2	Deer (Z)
	grain	5	-	
	subtotal	50	2	

vegetable fishery products 173 milk-dairyproducts 11 meat-egg 2578 2 beef (2) grain 222 others 5 subtotal 3004 2 vegetable 13 fishery products 2 milk-dairyproducts 5 fishery products 2 mait-egg 13 mait-egg 16 mait-egg 180 grain 6 others 181 7 refined tas leaf (7) subtotal 387 7 subtotal 387 7 mait-egg 38 mait-egg 38 mait-egg 38 subtotal 104 0	Food origin (Prefecture)	Food group	Number of food samples tested	Number of foods positive at levels exceeding provisional regulation limits (action levels)	Food concerned (numbers)
fisher fisher <thfisher< th=""> <thfisher< th=""> <thfisher< td="" th<=""><td></td><td>vegetable</td><td>173</td><td>-</td><td></td></thfisher<></thfisher<></thfisher<>		vegetable	173	-	
Yamagta Imit alinyproducts Imat alinyproducts meat egg 2578 2 beef (2) others 5 - - others 5 - - subtotal 3004 2 - subtotal 3004 2 - subtotal 3004 2 - fishery products 5 - - meat egg 180 - - grain 6 - - others 161 7 refined tea leaf (7) subtotal 387 7 - vegetable 45 - - mik-dainyproducts 6 - - mike-dainyproducts 6 - - grain 6 - - wegetable 10 - - wegetable 10 - - subtotal 127 0 -		fishery products	5	-	
Yamagata meat-egg 2578 2 beef (2) grain 222		milk · dairyproducts	11	-	
grain 232 others 5 subtotal 3004 2 subtotal 3004 2 regrain 13 mik-dainproducts 5 mik-dainproducts 5 grain 6 grain 6 grain 6 grain 6 grain 6 grain 6 mik-dainproducts 6 mik-dainproducts 6 mik-dainproducts 6 mik-dainproducts 6 mik-dainproducts 6 subtotal 104 0 grain 6 subtotal 104 0 meat-egg 38 fisher products 9 grain 5 <	Yamagata	meat egg	2578	2	beef (2)
others 5 - subtotal 3004 2 Image: subject in the subj		grain	232	-	
subtolal 3004 2 vegetable 13 - fishery products 22 - materegg 180 - meat-egg 180 - others 161 7 refined tea leaf (7) subtotal 387 7 - vegetable 45 - - milk-dairyproducts 6 - - milk-dairyproducts 6 - - milk-dairyproducts 6 - - milk-dairyproducts 6 - - grain 6 - - wegetable 10 - - subtotal 104 0 - vegetable 10 - - fishery products 59 - - fishery products 59 - - duthers 1 - - grain 5 - - <td< td=""><td></td><td>others</td><td>5</td><td>-</td><td></td></td<>		others	5	-	
vegetable 13 - fishery products 5 - milk dairyproducts 5 - grain 6 - others 161 7 refined tea leaf (7) subtotal 387 7 vegetable 45 - milk dairyproducts 6 - grain 6 - grain 6 - meat egg 38 - grain 6 - others 9 - grain 6 - vegetable 104 0 vegetable 10 - fishery products 59 - milk dairyproduct 4 - milk dairyproducts 4 - grain 5 - grain 5 - grain 5 - grain 60 - grain 1		subtotal	3004	2	
Shizuoka Inik-dairyproducts 22 mile dairyproducts 5 - - grain 6 - - grain 6 - - others 161 7 refined tea leaf (7) subtotal 387 7 mile dairyproducts 6 - mile dairyproducts 6 - mile dairyproducts 6 - grain 6 - others 9 - grain 6 - others 9 - others 9 - subtotal 104 0 vegetable 10 - subtotal 104 0 meat-egg 48 - meat-egg 48 - others 1 - others 1 - subtotal 122 0 grain 80		vegetable	13	-	
milk:cdaryproducts 5 grain 6 grain 6 others 161 7 refined tea leaf (7) subtotal 387 7 vegetable 45 milk:cdaryproducts 6 meat-egg 38 grain 6 meat-egg 38 grain 6 grain 6 grain 6 grain 6 subtotal 104 0 fshery products 59 fshery products 59 fshery products 59 fshery products 59 grain 5 grain 5 others 1 - grain 80 grain 80 <td></td> <td>fishery products</td> <td>22</td> <td>-</td> <td></td>		fishery products	22	-	
Shizuoka meat-egg 180 grain 6 others 161 7 refined tea leaf (7) subtotal 387 7 milk-dairyproducts 6 milk-dairyproducts 6 grain 6 grain 6 grain 6 others 9 subtotal 104 0 vegetable 10 fishery products 59 milk-dairyproducts 4 meat-egg 48 grain 5 subtotal 127 0 subtotal 127 0 subtotal 112 0		milk · dairyproducts	5	-	
grain 6 - others 161 7 refined tea leaf (7) subtofal 387 7 milk-dairyproducts 6 - milk-dairyproducts 6 - meat-egg 38 - grain 6 - others 9 - grain 6 - subtofal 104 0 subtofal 104 0 marx 9 - marx 9 - moticts 9 - moticts 9 - marx 9 - milk-dairyproducts 4 - milk-dairyproducts 4 - grain 5 - grain 5 -	Shizuoka	meat egg	180	-	
others 161 7 refined tea leaf (7) subtotal 387 7 vegetable 45 milk-dairyproducts 6 grain 6 grain 6 others 9 subtotal 104 0 vegetable 10 subtotal 104 0 fishery products 59 milk-dairyproducts 59 milk-dairyproducts 59 milk-dairyproducts 59 milk-dairyproducts 59 milk-dairyproducts 59 milk-dairyproducts 59 grain 5 grain 5 subtotal 127 0 meat-egg 32 subtotal 112 0 meat-egg 9		grain	6	-	
subtotal 387 7 vegetable 45 milk-disproducts 6 grain 6 others 9 subtotal 104 0 vegetable 10 subtotal 104 0 meat-egg 48 fishery products 59 fishery products 59 milk-disinproducts 4 meat-egg 48 others 1 others 1 others 1 others 1 others 1 others 1 subtotal 127 0 meat-egg 32 grain 80 subtotal 112 0 fishikawa grain 38		others	161	7	refined tea leaf (7)
Yamanshi vegetable 45 milk-dairyproducts 6 meat-egg 38 grain 6 - others 9 subtotal 104 0 vegetable 10 fishery products 59 milk-dairyproducts 59 milk-dairyproducts 59 milk-dairyproducts 4 milk-dairyproducts 4 meat-egg 48 grain 5 others 1 grain 5 grain 80 subtotal 127 0 meat-egg 32 subtotal 112 0 grain 80 subtotal 112 0 fishikawa grain 38 <tr< td=""><td></td><td>subtotal</td><td>387</td><td>7</td><td></td></tr<>		subtotal	387	7	
Yamanashi milk-dairyproducts 6 meat-egg 38 grain 6 others 9 subtotal 104 0 regetable 10 fishery products 59 milk-dairyproducts 59 milk-dairyproducts 4 meat-egg 48 meat-egg 48 grain 5 others 1 others 1 others 1 others 1 grain 32 meat-egg 32 grain 80 grain 38 subtotal 112 0 meat-egg 18 subtotal 87 0 grain 87		vegetable	45	-	
Yamanashi meat-egg 38 grain 6 others 9 subtotal 104 0 vegetable 10 fishery products 59 milk-dairyproducts 59 milk-dairyproducts 4 milk-dairyproducts 4 milk-dairyproducts 4 meat-egg 48 grain 5 others 1 grain 5 others 1 meat-egg 32 meat-egg 32 grain 80 - grain 80 - subtotal 112 O meat-egg 49 - grain 38 - grain 87 O grain 87		milk · dairyproducts	6	-	
grain 6 others 9 - subtotal 104 0 subtotal 104 0 regetable 10 - fishery products 59 - mik dairyproducts 4 - mik dairyproducts 4 - grain 5 - others 1 - grain 5 - others 1 - others 1 - grain 50 - meat-egg 32 - meat-egg 38 - subtotal 112 0 meat-egg 18 - grain 37 - grain 87 <td>Vamanashi</td> <td>meat egg</td> <td>38</td> <td>-</td> <td></td>	Vamanashi	meat egg	38	-	
others 9 subtotal 104 0 vegetable 10 - fshery products 59 - milk-dairyproducts 4 - mati-egg 48 - grain 5 - others 1 - others 1 - grain 52 - others 1 - others 1 - grain 80 - meat-egg 32 - grain 80 - grain 80 - grain 80 - subtotal 112 0 subtotal 112 0 grain 38 - grain 38 - grain 38 - grain 87 0 grain 87 0 grain 87	ramanashi	grain	6		
subtotal 104 0 vegetable 10 fishery products 59 milk dairyproducts 4 milk dairyproducts 4 meat egg 48 grain 5 others 1 others 1 subtotal 127 0 meat egg 32 others 1 grain 80 meat egg 32 grain 80 grain 80 subtotal 112 0 meat egg 49 subtotal 87 0 fukui grain 38 subtotal 87 0 fukui grain 87 0 grain 87 0		others	9	-	
vegetable 10 - fishery products 59 - milk dairyproducts 59 - milk dairyproducts 4 - meat egg 48 - grain 5 - others 1 - others 1 - others 1 - meat egg 32 - grain 80 - grain 80 - meat egg 32 - grain 80 - grain 80 - grain 80 - grain 81 - grain 38 - subtotal 87 0 fishikawa grain 87 grain 87 - fishikawa 9rain 87 grain 87 - grain 87 - grain		subtotal	104	0	
Hokkaido fishery products 59 milk (dairyproducts 4 meat-egg 48 grain 5 others 1 subtotal 127 0 meat-egg 32 grain 80 grain 80 subtotal 112 0 meat-egg 49 grain 80 subtotal 112 0 meat-egg 49 grain 38 subtotal 87 0 fuku grain 87 0 fuku grain 87 0 grain 87 0 fuku grain 87 0 fuku grain 87 0 fuku 105 0 </td <td></td> <td>vegetable</td> <td>10</td> <td>-</td> <td></td>		vegetable	10	-	
Mokkaido milk dairyproducts 4 meat egg 48 grain 5 others 1 others 1 subtotal 127 0 meat egg 32 grain 80 grain 80 subtotal 112 0 meat egg 49 grain 38 grain 38 grain 38 grain 38 fukui grain 87 0 grain 87 0 grain 87 0 fukui grain 87 0 grain 87 0 grain 87 0 grain 105 0 <td></td> <td>fishery products</td> <td>59</td> <td>-</td> <td></td>		fishery products	59	-	
Hokkaido meat-egg 48 grain 5 others 1 subtotal 127 0 meat-egg 32 grain 80 subtotal 112 0 grain 80 subtotal 112 0 meat-egg 49 grain 38 subtotal 87 0 grain 87 0 meat-egg 18 grain 87 0 grain		milk · dairyproducts	4	-	
	Hokkaido	meat-egg	48	-	
		grain	5	-	
		others	1	-	
meat·egg 32 grain 80 subtotal 112 0 meat·egg 49 grain 38 subtotal 87 0 Fukui meat·egg 18 grain 87 0 Fukui grain 87 0 grain 105 0 Gifu vegetable 1 grain 3 subtotal 105 0 grain 3 subtotal 105 0 grain 3 meat·egg 111 subtotal 115 0		subtotal	127	0	
Toyama grain 80 subtotal 112 0 meat egg 49 grain 38 subtotal 87 0 meat egg 18 meat egg 18 grain 87 0 Fukui grain 87 grain 87 subtotal 105 0 Gifu vegetable 1 grain 3 subtotal 115 0		meat · egg	32	-	
subtotal 112 0 meat·egg 49 grain 38 - subtotal 87 0 meat·egg 18 - Fukui grain 87 0 grain 87 0 subtotal 105 0 grain 105 0 vegetable 1 - grain 3 - grain 3 - grain 3 - grain 3 -	Toyama	grain	80	-	
Ishikawa meat·egg 49 grain 38 subtotal 87 0 Fukui grain 87 0 grain 87 0 0 Fukui grain 87 subtotal 105 0 0 Gifu vegetable 1 grain 3 0 subtotal 105 0 0		subtotal	112	0	
Ishikawa grain 38 subtotal 87 0 meat·egg 18 Fukui grain 87 subtotal 105 0 vegetable 1 Gifu grain 3 subtotal 115 0 0		meat · egg	49	-	
subtotal 87 0 meat·egg 18 grain 87 subtotal 105 0 vegetable 1 meat·egg 111 grain 3 subtotal 115 0	Ishikawa	grain	38	-	
meat·egg 18 grain 87 subtotal 105 0 vegetable 1 meat·egg 111 grain 3 subtotal 115 0		subtotal	87	0	
grain 87 subtotal 105 0 vegetable 1 meat-egg 111 grain 3 subtotal 115 0		meat · egg	18	-	
subtotal 105 0 vegetable 1 meat-egg 111 grain 3 subtotal 115 0	Fukui	grain	87	-	
vegetable 1 Gifu meat-egg 111 grain 3 subtotal 115 0		subtotal	105	0	
Gifu grain 3 - subtotal 115 0		vegetable	1	-	
grain 3 - subtotal 115 0	0.5	meat egg	111	-	
subtotal 115 0	Gifu	grain	3	-	
		subtotal	115	0	

1	vegetable	1	-	
	fishery products	2	-	
	mentery producto			
Aichi	milk dairyproducts	4	-	
Aleri	meat-edd	1	-	
	othore			
	outers	9	-	
	subtotal	17	0	
	meat-eng	8	-	
Shiga	mearegy	0	_	
	subtotal	8	0	
	fishery products	10	-	
	insticity products	10		
Mie	meat-egg	32	-	
1110	others	1		
	cubtotal	42	0	
	Subiolai	40		
	vegetable	33	-	
	fishery products	13	-	
	inoritory producto			
	milk dairyproducts	6	-	
Kvoto	meat-edd	8	-	
	aroin	-		
	grain	5	-	
	others	2	-	
	subtotal	87	0	
L	Subiolai	07		
1	vegetable	25	-	
1	fishery products	2	-	
	momenty products	4	-	
Hypero	milk dairyproducts	1	-	
nyogo	meat-edd	8	-	
1	arein	10		
	grain	18	-	
	subtotal	54	0	
	fishery products	0	_	
	instiery products	2	-	
Wakayama	meat-egg	1		
	subtotal	3	0	
	Subtotal		v	
Tottori	meatregg		-	
	subtotal	1	0	
	meat-eng	72	-	
Shimane	meat egg	12		
	subtotal	72	0	
	meat-edd	6	-	
Okayama	outstal			
	subtotal	6	0	
	meat-egg	3	-	
	milk doin/products	1	_	
Hiroshima	mink dairyproducts		_	
	grain	1	-	
	subtotal	5	0	
	most org		-	
Tokushima	meatregg		-	
1 of the	subtotal	1	0	
	vegetable	0		
Thims	vegetable		_	
Ehime		2	-	
	meatregg	1	-	
	subtotal	1	0	
	subtotal	2 1 3 5	- - 0 -	
	subtotal vegetable	2 1 3 5	- - 0 -	
	subtotal vegetable fishery products	2 1 3 5 6	- - 0 -	
Kochi	subtotal vegetable fishery products meat equ	2 1 3 5 6 1	- - - - -	
Kochi	subtotal vegetable fishery products meat egg	2 1 3 5 6 1	- 0 - -	
Kochi	subtotal vegetable fishery products meat egg grain	2 1 3 5 6 1 1	- - 0 - - - -	
Kochi	subtotal vegetable fishery products meat egg grain subtotal	2 1 3 5 6 1 1 1 13	- - 0 - - - - 0	
Kochi	meat egg subtotal vegetable fishery products meat egg grain subtotal	2 1 3 5 6 1 1 1 13	- - - - - - - 0	
Kochi	meat egg subtotal vegetable fishery products meat egg grain subtotal meat egg	2 1 3 5 6 1 1 1 13 1	- - - - - 0	
Kochi	meat: egg subtotal vegetable fishery products meat: egg grain meat: egg grain	2 1 3 5 6 1 1 13 1 1	- 0 - - - - 0 -	
Kochi Yamaguchi	meat egg subtotal vegetable fishery products meat egg grain subtotal meat egg grain eubtotal	2 1 3 5 6 1 1 1 1 3 1 2	- - 0 - - - - 0 - - - 0	
Kochi Yamaguchi	subtotal vegetable fishery products meat egg grain subtotal grain subtotal	2 1 3 5 6 1 1 1 1 3 1 1 2	- 0 - - - - 0 - 0	
Kochi Yamaguchi	meat egg subtotal vegetable fishery products meat egg grain subtotal meat egg grain subtotal vegetable	2 1 3 5 6 1 1 13 1 2 1	- - - - - - - 0 - - 0 -	
Kochi Yamaguchi Nagasaki	meat egg subtotal vegetable fishery products meat egg grain subtotal meat egg grain subtotal vegetable subtotal	2 1 3 5 6 1 1 1 1 1 2 1 1	- - - - - - - - - - 0 - - 0 -	
Kochi Yamaguchi Nagasaki	meat: egg subtotal vegetable fishery products meat: egg grain subtotal vegetable subtotal vegetable	2 1 3 5 6 1 1 13 1 1 2 1 1 2	- - 0 - - - 0 - - 0 - - 0 - 0 - 0	
Kochi Yamaguchi Nagasaki	meat egg subtotal vegetable fishery products meat egg grain subtotal meat egg grain subtotal vegetable subtotal meat egg	2 1 3 5 6 1 1 1 1 3 1 1 2 1 1 2		
Kochi Yamaguchi Nagasaki Kumamoto	meat egg subtotal vegetable fishery products meat egg grain subtotal vegetable subtotal meat egg subtotal	2 1 3 5 6 1 1 1 1 2 1 1 2 2 2	- - - - - - - 0 - - 0 - - 0 - - 0 -	
Kochi Yamaguchi Nagasaki Kumamoto	meat egg subtotal vegetable fishery products meat egg grain subtotal meat egg grain subtotal vegetable subtotal meat egg subtotal	2 1 3 5 6 1 1 1 1 2 2 1 1 2 2 2 2	- - 0 - - - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 -	
Kochi Yamaguchi Nagasaki Kumamoto Oita	meat egg subtotal vegetable fishery products meat egg grain subtotal vegetable subtotal wegetable subtotal meat egg subtotal meat egg	2 1 3 5 6 1 1 1 1 2 1 2 1 1 2 2 3	- - - - - - - - 0 - - 0 - - 0 - - 0 -	
Kochi Yamaguchi Nagasaki Kumamoto Oita	meat egg subtotal vegetable fishery products meat egg grain subtotal vegetable subtotal meat egg subtotal meat egg subtotal	2 1 3 5 6 1 1 1 3 1 1 2 1 1 2 2 3 3 3	- - 0 - - - 0 - - 0 - 0 - 0 - 0 - 0 - 0	
Kochi Yamaguchi Nagasaki Kumamoto Oita	meat egg subtotal vegetable fishery products meat egg grain subtotal vegetable subtotal vegetable subtotal meat egg subtotal meat egg subtotal meat egg	2 1 3 5 6 1 1 1 1 2 1 1 2 2 3 3 2		
Kochi Yamaguchi Nagasaki Kumamoto Oita Miyazaki	meat egg subtotal vegetable fishery products meat egg grain subtotal vegetable subtotal meat egg subtotal meat egg subtotal others	2 1 3 5 6 1 1 13 1 1 2 1 1 2 2 3 3 3 2 2		
Kochi Yamaguchi Nagasaki Kumamoto Oita Miyazaki	meat egg subtotal vegetable fishery products meat egg grain subtotal meat egg grain subtotal vegetable subtotal meat egg subtotal meat egg subtotal others subtotal	2 1 3 5 6 1 1 1 1 2 1 1 2 2 3 3 2 2		
Kochi Yamaguchi Nagasaki Kumamoto Oita Miyazaki	meat egg subtotal vegetable fishery products meat egg grain subtotal meat egg grain subtotal meat egg subtotal meat egg subtotal others subtotal mik dairyproducts	2 1 3 5 6 1 1 1 1 2 1 1 2 2 3 3 3 2 30		
Kochi Yamaguchi Nagasaki Kumamoto Oita Miyazaki	meat egg subtotal vegetable fishery products meat egg grain subtotal meat egg subtotal meat egg subtotal meat egg subtotal others subtotal others	2 1 3 5 6 1 1 1 1 2 2 1 1 2 2 3 3 2 2 2 3 0 5		
Kochi Yamaguchi Nagasaki Kumamoto Oita Miyazaki Others	meat: egg subtotal vegetable fishery products meat: egg grain subtotal vegetable subtotal weat: egg subtotal meat: egg subtotal others subtotal others subtotal meat: egg	2 1 3 5 6 1 1 1 1 2 1 1 2 3 3 2 2 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5		
Kochi Yamaguchi Nagasaki Kumamoto Oita Miyazaki Others	meat egg subtotal vegetable fishery products meat egg grain subtotal vegetable subtotal meat egg subtotal meat egg subtotal others subtotal meat egg others	2 1 3 5 6 1 1 1 1 2 1 1 2 1 1 2 1 1 2 3 3 2 2 3 3 5 7		
Kochi Yamaguchi Nagasaki Kumamoto Oita Miyazaki Others	meat egg subtotal vegetable fishery products meat egg grain subtotal vegetable subtotal vegetable subtotal meat egg subtotal others subtotal meat egg subtotal meat egg subtotal meat egg subtotal others subtotal meat egg others subtotal	2 1 3 5 6 1 1 1 1 1 1 2 2 3 3 2 2 30 5 7 42		
Kochi Yamaguchi Nagasaki Kumamoto Oita Miyazaki Others	meat egg subtotal vegetable fishery products meat egg grain subtotal vegetable subtotal meat egg subtotal meat egg subtotal others subtotal milk dairyproducts meat egg others subtotal	2 1 3 5 6 1 1 1 1 1 2 1 1 2 2 3 3 2 2 30 5 7 42		
Kochi Yamaguchi Nagasaki Kumamoto Oita Miyazaki Others	meat egg subtotal vegetable fishery products meat egg grain subtotal meat egg subtotal meat egg subtotal meat egg subtotal others subtotal meat egg others subtotal total	2 1 3 5 6 1 1 1 1 1 2 1 1 1 2 2 3 3 2 2 30 5 7 42 23643	- - - - - - - - - - - - - - - - - - -	

Restriction of distribution and/or consumption within the whole and/or part of prefecture are imposed for the underlined foods.

Q.13. Have any blood samples or other tissue samples been taken for biologic dosimetry from workers with the highest exposures?

A.13. To the Committee's knowledge, no blood sampling has been done up to the present time.